

What is claimed is:

Sub C1

1. A matting agent composition comprising silica and wax wherein the composition has a median particle size in the range of 2-12 microns, a wax content in the range of about 15 to 30% by weight of the total composition and the silica has a pore volume in the range of about 0.8 to 1.4 cc/g.

2. A matting agent composition according to claim 1 wherein the wax content is about 18-22% by weight.

3. A matting agent composition according to claim 1 wherein the wax has a melting point in the range of 60-120°C.

4. A matting agent composition according to claim 1 wherein the wax has a melting point in the range of 60-90°C.

5. A matting agent composition according to claim 3 wherein the wax is paraffin and has a melting point in the range of 60-90°C.

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Sub C2

6. A matting agent composition according to claim 1 wherein the median particle size of the composition is about 2 to 5 microns.

7. A matting agent composition according to claim 2 wherein the median particle size of the composition is about 2 to 5 microns.

8. A matting agent composition according to claim 1 wherein the silica has a pore volume in the range of about 0.9 to about 1.2 cc/g.

9. A matting agent composition according to claim 2 wherein the silica has a pore volume in the range of about 0.9 to about 1.2 cc/g.

10. A matting agent composition according to claim 7 wherein the silica has a pore volume in the range of about 0.9 to about 1.2 cc/g.

11. A coating composition comprising a radiation curable component and a matting agent component according to any one of claims 1-10.

12. A coating composition according to claim 11 wherein the radiation curable component comprises acrylates.

13. A coating composition according to claim 11 wherein the radiation curable component is curable by exposure to ultraviolet radiation.

14. A coating composition according to claim 11 wherein the radiation curable component is curable by electron beam radiation.

15. A coating composition according to claim 13 or 14 further comprising a curing initiator.

16. A coating composition according to claim 13 wherein the radiation curable component comprises acrylate and the coating composition comprises 2% by weight or less of matting agent component.

17. A coated substrate comprising a substrate and a coating thereon prepared from a composition according to any one of claims 11-16.

18. A coated substrate according to claim 17 wherein the coating is prepared from the coating of claim 16 and the coating has a matting efficiency of about 20 gloss units at 60°.

19. A coated substrate according to claim 16 wherein the coating is prepared from an amine-modified polyether acrylate, the coating is prepared from a

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composition comprising about 12% by weight matting agent component or less and the coating has a matting efficiency of about 60 gloss units or less at 60°.

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Add C5
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